

Anti-LC3A/B Mouse mAb

Purified Mouse Monoclonal Antibody

Catalog # M011692

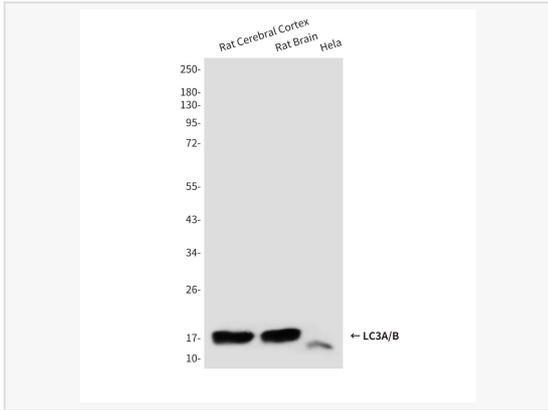
Product Information

Application	WB, ELISA
Reactivity	Human, Rat
Dilution	WB 1:500~1:1,000
Host	Mouse
Clonality	Monoclonal
Clone No.	20K42M23
Isotype	IgG2b
Label	Unconjugated
Immunogen	Synthetic peptide corresponding to human LC3B protein
Format	Buffer System: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. Purification: Affinity Purified.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-LC3A/B antibody [20K42M23] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	LC3, LC3A, ATG8E, MAP1ALC3, MAP1BLC3, MAP1LC3A, LC3B, ATG8F, MAP1LC3B-a, MAP1A/1BLC3, MAP1LC3B.
Calculated MW	Calculated MW: 14 kDa; Observed MW: 14,16 kDa
Uniprot ID	Q9H492, Q9GZQ8
Gene ID	84557/81631
Background	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3a is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/ATG4B to form the cytosolic form, LC3-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II.

Validation Images



Western blot analysis of LC3A/B in rat Cerebral Cortex, rat Brain and HeLa lysates using LC3A/B antibody.